

INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 30725	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/SI 03/00036	International filing date (day/month/year) 16.10.2003	Priority date (day/month/year) 18.10.2002
International Patent Classification (IPC) or both national classification and IPC A61K9/20		
Applicant KRKA, TOVARNA ZDRAVIL, D.D., NOVO MESTO et al.		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 3 sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the opinion II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 16.04.2004	Date of completion of this report 25.02.2005
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Borst, M Telephone No. +49 89 2399-8648



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I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-10 as originally filed

Claims, Numbers

1-16 received on 14.02.2005 with letter of 11.02.2005

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:
- the drawings, sheets:

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-16
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-16
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-16
	No:	Claims	

2. Citations and explanations

see separate sheet

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Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Documents considered to be relevant to novelty and inventive step

D1: EP-A-0 830 858 (LILLY CO ELI) 25 March 1998 (1998-03-25)

1. Novelty (Article 33(2) PCT)

The subject-matter of independent claims 1 and 16 appears to be new in the light of the prior art available.

D1 (page 5, line 1-51; example 3) discloses tablets obtainable by direct compression from olanzapine particles coated with HPMC, lactose, HPC, microcrystalline cellulose, Crospovidone and Mg stearate. In contrast thereto the tablets according to the claims on file are obtainable from olanzapine without coating.

2. Inventive step (Article 33(3) PCT)

The subject-matter of present claims 1 and 16 appears to involve an inventive step in the light of the prior art available.

The closest prior art D1 (page 2, line 6-21) tries to overcome the metastable properties of olanzapine by coating the olanzapine substance with a polymer. As shown by the experimental data on file (example 2 and 3) for the tablets according to the present claims the stabilisation is achieved in the absence of any olanzapine coating by direct compression of the components (a) to (c).

The objective technical problem to be solved in the light of D1 was, therefore, to provide an alternative, more economic solution to the problem of stabilising olanzapine, in particular against discolouration.

None of the prior art documents available points to the direct compression of olanzapine as defined in claims 1 and 16 for solving the above problem.

Certain published documents (E) (Rule 64.3 PCT)

E1: WO 03/086361 A (DESHMUKH ABHIJIT MUKUND ; DHANORKAR VIPIN TATYASAHEB (IN); DIVI MURALI) 23 October 2003 (2003-10-23)

The above-mentioned document does not constitute prior art for the purposes of Article 33(2) and (3) PCT (Rule 64.3 PCT). However, when the present application

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has entered the regional phase at the EPO, said document will be taken into consideration for the examination of novelty.

E1 (example 7-9) discloses tablets comprising olanzapine, about 5% mannitol or sorbitol, and about 80% cellulose and pregelatinized starch.

The tablet of E1 (example 13) produced by direct compression comprise olanzapine, cellulose, guar gum and crosspovidone. As cellulose and guar gum are polysaccharides the latter formulation not containing a mono- or oligosaccharide is not pertinent to novelty of the claims on file.